

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application.

Claims 1-15. (Canceled)

Claim 16. (Presently amended) A method of reducing the number of nucleation mode particles in the emissions from a heavy duty diesel engine fitted with a catalyzed particulate trap, which is a continuously regenerating trap (CRT™) comprising both an oxidation catalyst and a particulate trap, which method comprises lubricating a heavy duty diesel engine with a lubricating oil consisting essentially of an anti-wear, anti-oxidant and corrosion-inhibiting lubricating oil having a low sulphur content of less than 0.4% by weight and comprising ZDDP and optionally at least one additional additive selected from the group consisting of an anti-wear additive, an anti-oxidant additive, a corrosion inhibitor, an anti-foam additive, a Viscosity Index improver and a dispersant, wherein ZDDP is present at a concentration of up to ~~0.8~~ 0.4 percent by weight, and employing a fuel having a low sulphur content of below 50 ppm by weight, to thereby reduce the emissions of nucleation mode particles from the heavy duty diesel engine fitted with a catalyzed particulate trap, wherein the nucleation mode particles have a diameter in the range of between about 3 nm and 7nm.

Claims 17-24. (Canceled)

Claim 25. (Previously presented) A method according to claim 16, wherein the sulphur content (by weight) of the fuel is below 20 ppm.

Claim 26. (Previously presented) A method according to claim 25, wherein the sulphur content (by weight) of the fuel is 10 ppm or lower.

Claims 27-32. (Canceled)

Claim 33. (Previously presented) A method according to claim 16, wherein the low sulphur lubricating oil has a sulphur content (by weight) of less than 0.3%.

Claim 34. (Previously presented) A method according to claim 33, wherein the low sulphur lubricating oil has a sulphur content (by weight) of less than 0.2%.

Claim 35. (Previously presented) A method according to claim 34, wherein the low sulphur lubricating oil has a sulphur content (by weight) of less than 0.15%.

Claim 36. (Previously presented) A method according to claim 16, wherein the low sulphur lubricating oil comprises one or more anti-wear additives selected from the group consisting of (a) molybdenum containing compounds, (b) organic based friction modifiers, and (c) salicylate-type detergents.

Claim 37. (Previously presented) A method according to claim 16, wherein the low sulphur lubricating oil comprises one or more anti-oxidant additives selected from the group consisting of aromatic amines and phenolic compounds.

Claim 38. (Previously presented) A method according to claim 16, wherein the low sulphur lubricating oil comprises one or more corrosion inhibitor additives selected from the non-sulphur detergent additives.

Claim 39. (Previously presented) A method according to claim 16, wherein the low sulphur lubricating oil comprises one or more other additives selected from one or more of anti-foam additives, Viscosity Index improvers and dispersants.

Claim 40-58. (Canceled)

Claim 59. (Previously presented) A method according to Claim 25 wherein the low sulphur lubricating oil has a sulphur content (by weight) of less than 0.3%.

Claim 60. (Previously presented) A method according to Claim 26 wherein the low sulphur lubricating oil has a sulphur content (by weight) of less than 0.3%.

Claim 61. (Previously presented) A method according to Claim 25 wherein the low sulphur lubricating oil has a sulphur content (by weight) of less than 0.2 %.

Claim 62. (Previously presented) A method according to Claim 26 wherein the low sulphur lubricating oil has a sulphur content (by weight) of less than 0.2%.

Claim 63. (Previously presented) A method according to Claim 25 wherein the low sulphur lubricating oil has a sulphur content (by weight) of less than 0.15%.

Claim 64. (Previously presented) A method according to Claim 26 wherein the low sulphur lubricating oil has a sulphur content (by weight) of less than 0.15%.

Claim 65-75 (Canceled)

Claim 76. (New) A method according to claim 25, wherein the low sulphur lubricating oil comprises one or more anti-wear additives selected from the group consisting of (a) molybdenum containing compounds, (b) organic based friction modifiers, and (c) salicylate-type detergents.

Claim 77. (New) A method according to claim 25, wherein the low sulphur lubricating oil comprises one or more anti-oxidant additives selected from the group consisting of aromatic amines and phenolic compounds.

Claim 78. (New) A method according to claim 25, wherein the low sulphur lubricating oil comprises one or more corrosion inhibitor additives selected from the non-sulphur detergent additives.

Claim 79. (New) A method according to claim 25, wherein the low sulphur lubricating oil comprises one or more other additives selected from one or more of anti-foam additives, Viscosity Index improvers and dispersants.

Claim 80. (New) A method according to claim 26, wherein the low sulphur lubricating oil comprises one or more anti-wear additives selected from the group consisting of (a) molybdenum containing compounds, (b) organic based friction modifiers, and (c) salicylate-type detergents.

Claim 81. (New) A method according to claim 26, wherein the low sulphur lubricating oil comprises one or more anti-oxidant additives selected from the group consisting of aromatic amines and phenolic compounds.

Claim 82. (New) A method according to claim 26, wherein the low sulphur lubricating oil comprises one or more corrosion inhibitor additives selected from the non-sulphur detergent additives.

Claim 83. (New) A method according to claim 26, wherein the low sulphur lubricating oil comprises one or more other additives selected from one or more of anti-foam additives, Viscosity Index improvers and dispersants.

Claim 84. (New) A method according to claim 62, wherein the low sulphur lubricating oil comprises one or more anti-wear additives selected from the

group consisting of (a) molybdenum containing compounds, (b) organic based friction modifiers, and (c) salicylate-type detergents.

Claim 85. (New) A method according to claim 62, wherein the low sulphur lubricating oil comprises one or more anti-oxidant additives selected from the group consisting of aromatic amines and phenolic compounds.

Claim 86. (New) A method according to claim 62, wherein the low sulphur lubricating oil comprises one or more corrosion inhibitor additives selected from the non-sulphur detergent additives.

Claim 87. (New) A method according to claim 62, wherein the low sulphur lubricating oil comprises one or more other additives selected from one or more of anti-foam additives, Viscosity Index improvers and dispersants.

Claim 88. (New) A method according to claim 64, wherein the low sulphur lubricating oil comprises one or more anti-wear additives selected from the group consisting of (a) molybdenum containing compounds, (b) organic based friction modifiers, and (c) salicylate-type detergents.

Claim 89. (New) A method according to claim 64, wherein the low sulphur lubricating oil comprises one or more anti-oxidant additives selected from the group consisting of aromatic amines and phenolic compounds.

Claim 90. (New) A method according to claim 64, wherein the low sulphur lubricating oil comprises one or more corrosion inhibitor additives selected from the non-sulphur detergent additives.

Claim 91. (New) A method according to claim 64, wherein the low sulphur lubricating oil comprises one or more other additives selected from one or more of anti-foam additives, Viscosity Index improvers and dispersants.